

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : VICTOR CO OF JAPAN LTD

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(72)Inventor : MOCHIZUKI AKIHIRO

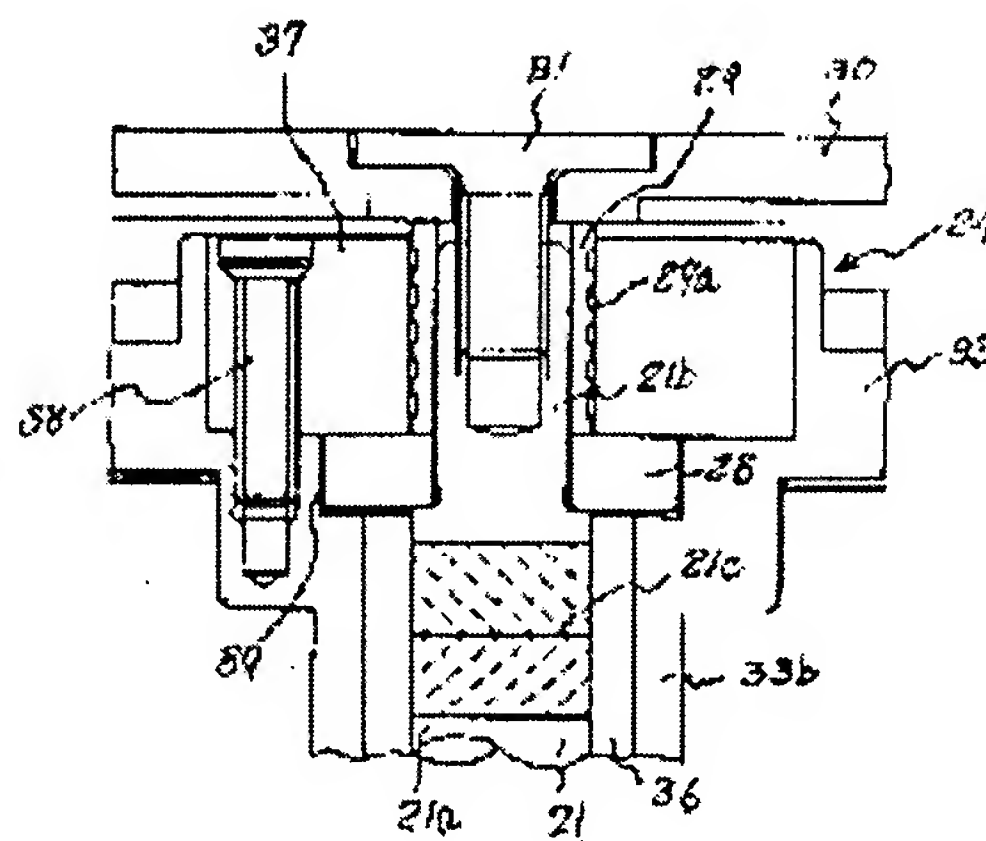
(54) DYNAMIC PRESSURE TYPE FLUID BEARING TYPE DISK DRIVING DEVICE

(57)Abstract:

PURPOSE: To improve durability and reliability of a disk driving device by providing the device with a cylindrical means inserted onto a stationary shaft, a rotating body for holding a disk and a fixing means for bringing a thrust bearing into pressurized contact with a step part.

CONSTITUTION: Grooves 29a which are spiral or have a groove 29a of  $\leq 1.5\text{mm}$  wide for preventing the leakage of lubricant are formed on the outer peripheral surface of a cylindrical member 29 over the entire periphery and the top end of this cylindrical member 29 projects slightly from the small-diameter part 21b of the stationary shaft 21.

A top plate 30 of the device is screwed in this state with a lock screw 31 to the small-diameter part 21b to assemble fixing part. In such a case, the leakage of a lubricant 39 from the front surface of the hub 33 of the cylindrical member 29 is suppressed as far as possible. Further, the cylindrical member 29 is formed by using a copper alloy or aluminum alloy having good machinability and, therefore, the working of the spiral grooves of a large number of lines on the surface is made possible and the effect of preventing the leakage of the lubricant is enhanced.



## LEGAL STATUS

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